Equations and Expressions: Lesson 1

Aim: SWBAT recognize and use equations vocabulary. SWBAT match situations with equations that describe them.

\*\*Video from this lesson at this link: <https://www.oercommons.org/courseware/lesson/1411/overview>

**Do Now:**

1. The equation could be true or false.
   1. If is 3, is 4, and is 5, is the equation true or false?
   2. Find new values of , , and that make the equation true.
   3. Find new values of , , and that make the equation false.
2. The equation could be true or false.
   1. If is 3, is 4, and is 12, is the equation true or false?
   2. Find new values of , , and that make the equation true.
   3. Find new values of , , and that make the equation false.

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Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Math: \_\_\_\_\_

**Equations and Expressions Introduction**

**Vocabulary**

|  |  |  |
| --- | --- | --- |
| **Word** | **Definition** | **Example** |
| Sum | The result of addition |  |
| Product | The result of multiplication |  |
| Quotient | The result of division |  |
| Term | A number, a variable, or a product of numbers and variables. Terms are separated by a + (plus) or – (minus). |  |
| Coefficient | A number that multiplies a variable |  |
| Variable | A letter that represents a number |  |
| Exponent | Tells how many times a number or variable is multiplied by itself |  |
| Constant | A number |  |

Write the expression from the video here: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I have written an expression that includes the following:

* From one to three terms
* One or two variables
* Whole numbers less than 10
* Exponents to the third power or less

You may ask questions to get information to help you figure out what the expression is. Write down the questions as you ask them. Sample questions include:

* How many variables are in the expression?
* How many terms are in the expression?
* Are there any exponents in the expression?

Now play the game with a partner. You will have fifteen seconds to write down your expression. Two minutes for your partner to ask questions and guess your expression, then switch.

### Choosing Equations to Match Situations

Circle **all** of the equations that describe each situation. If you get stuck, draw a diagram.

Find the solution for each situation.

1. Clare has 8 fewer books than Mai. If Mai has 26 books, how many books does Clare have?
   * \_\_\_\_\_\_\_\_\_\_\_
2. A coach formed teams of 8 from all the players in a soccer league. There are 14 teams. How many players are in the league?
   * \_\_\_\_\_\_\_\_\_\_\_
3. Kiran scored 223 more points in a computer game than Tyler. If Kiran scored 409 points, how many points did Tyler score?
   * \_\_\_\_\_\_\_\_\_\_\_
4. Mai ran 27 miles last week, which was three times as far as Jada ran. How far did Jada run?
   * \_\_\_\_\_\_\_\_\_\_\_

#### Are you ready for more?

Mai’s mother was 28 when Mai was born. Mai is now 12 years old. In how many years will Mai’s mother be twice Mai’s age? How old will they be then?